Bronze customer.sql

```
CREATE OR REFRESH STREAMING TABLE
${catalog_name}.${bronze_schema}.bronze_customer

COMMENT 'Bronze streaming table with raw data and inferred schema'

TBLPROPERTIES ('quality' = 'bronze')

AS SELECT *,

_metadata AS source_metadata

FROM STREAM

read_files('${customer_ingest_volume}');
```

Bronze_location.sql

```
CREATE OR REFRESH STREAMING TABLE
${catalog_name}.${bronze_schema}.bronze_location

COMMENT 'Bronze streaming table with raw data and inferred schema'

TBLPROPERTIES ('quality' = 'bronze')

AS SELECT *,
   _metadata AS source_metadata

FROM STREAM

read_files('${location_ingest_volume}');
```

Bronze_product.sql

```
CREATE OR REFRESH STREAMING TABLE
${catalog_name}.${bronze_schema}.bronze_product
COMMENT 'Bronze streaming table with raw data and inferred schema'
TBLPROPERTIES ('quality' = 'bronze')
AS SELECT *,
   _metadata AS source_metadata
FROM STREAM
read_files('${product_ingest_volume}');
```

Bronze sales.sql

```
CREATE OR REFRESH STREAMING TABLE ${catalog_name}.${bronze_schema}.bronze_sales

COMMENT 'Bronze streaming table with raw data and inferred schema'

TBLPROPERTIES ('quality' = 'bronze')

AS SELECT *,

_metadata AS source_metadata
```

```
FROM STREAM
read_files('${sales_ingest_volume}');
```

Silver customer.sql

```
CREATE OR REFRESH STREAMING TABLE
${catalog name}.${silver schema}.silver customer (
  customer id
                        INT NOT NULL,
  customer type STRING NOT NULL,
                       STRING NOT NULL,
  name
  first purchase date DATE NOT NULL,
  location id
                     INT NOT NULL,
  CONSTRAINT customer pk PRIMARY KEY (customer id)
   --FOREIGN KEY (location id) REFERENCES
${catalog}.${silver_schema}.silver_location(location_id)
COMMENT 'Silver streaming table with renamed columns and enforced datatypes'
TBLPROPERTIES ('quality' = 'silver')
AS
SELECT
  CAST (customerid AS INT) AS customer id,
  CAST (customer type AS STRING),
  CAST (name AS STRING),
  CAST (first purchase date AS DATE),
  CAST (locationid AS INT) AS location id
FROM STREAM (
${catalog_name}.${bronze schema}.bronze customer
WHERE
customerid IS NOT NULL AND
customer type IS NOT NULL AND
customer type != 'null' AND
name IS NOT NULL AND
 name != 'null' AND
 first_purchase_date IS NOT NULL AND
 locationid IS NOT NULL;
```

```
CREATE OR REFRESH STREAMING TABLE
${catalog name}.${silver schema}.silver location (
  location id
                        INT NOT NULL,
  city
                        STRING,
  state
                        STRING,
  country
                         STRING,
  CONSTRAINT location id PRIMARY KEY (location id)
COMMENT 'Silver streaming table with renamed columns and enforced datatypes'
TBLPROPERTIES ('quality' = 'silver')
AS
SELECT
  CAST (locationid AS INT) AS location_id,
  CAST (city AS STRING),
  CAST(state AS STRING),
  CAST (country AS STRING)
FROM STREAM (
 ${catalog name}.${bronze schema}.bronze location
WHERE
locationid IS NOT NULL AND
city != 'null' AND
state != 'null' AND
country != 'null';
```

```
CREATE OR REFRESH STREAMING TABLE
${catalog_name}.${silver_schema}.silver_product (
  product id
                      INT NOT NULL,
                      STRING NOT NULL,
  name
  base price
                      DOUBLE NOT NULL,
  brand
                      STRING NOT NULL,
  category
                      STRING NOT NULL,
  description STRING NOT NULL,
  subbrand
                      STRING NOT NULL,
  CONSTRAINT product id PRIMARY KEY (product id)
COMMENT 'Silver streaming table with renamed columns and enforced datatypes'
TBLPROPERTIES ('quality' = 'silver')
AS
SELECT
  CAST (productid AS INT) AS product id,
  CAST (name AS STRING),
  CAST (base price AS DOUBLE),
  CAST (brand AS STRING),
  CAST (category AS STRING),
  CAST (description AS STRING),
  CAST(subbrand AS STRING)
FROM STREAM (
 ${catalog name}.${bronze schema}.bronze product
WHERE
productid IS NOT NULL AND
name != 'null' AND
base price IS NOT NULL AND
brand != 'null' AND
category != 'null' AND
description != 'null' AND
subbrand != 'null';
```

```
CREATE OR REFRESH STREAMING TABLE ${catalog name}.${silver schema}.silver sales
  customer id INT NOT NULL,
                      DATE NOT NULL,
STRING NOT NULL,
  date of sale
  order status
  payment_method STRING NOT NULL,
  product id
                       INT NOT NULL,
  quantity
                       INT NOT NULL,
  sales id
                       INT NOT NULL,
  total sales
                       DOUBLE NOT NULL,
  unit price
                       DOUBLE NOT NULL,
  CONSTRAINT sales pk PRIMARY KEY (sales id)
   --FOREIGN KEY (customer id) REFERENCES
${catalog}.${silver schema}.silver customer(customer_id),
   --FOREIGN KEY (product id) REFERENCES
${catalog}.${silver schema}.silver product(product id)
COMMENT 'Silver streaming table with renamed columns and enforced datatypes'
TBLPROPERTIES ('quality' = 'silver')
AS
SELECT
  CAST (customerid AS INT) AS customer id,
  CAST (date of sale AS DATE),
  CAST (order status AS STRING),
  CAST (payment method AS STRING),
  CAST (productid AS INT) AS product id,
  CAST (quantity AS INT),
  CAST (salesid AS INT) AS sales id,
  CAST(total sales AS DOUBLE),
  CAST(unit price AS DOUBLE)
FROM STREAM (
 ${catalog name}.${bronze schema}.bronze sales
WHERE
customerid IS NOT NULL AND
date of sale IS NOT NULL AND
order status != 'null' AND
 payment method != 'null' AND
```

```
productid IS NOT NULL AND
quantity IS NOT NULL AND
salesid IS NOT NULL AND
total_sales IS NOT NULL AND
unit_price IS NOT NULL;
```

Gold_spend_per_country.sql

```
CREATE MATERIALIZED VIEW ${catalog name}.${gold schema}.gold spend per country
COMMENT 'Gold table with sales data to determine total spend by each country'
TBLPROPERTIES ('quality' = 'gold')
AS
with cte AS (
SELECT
  sales.date of sale,
  sales.total sales,
  sales.customer_id,
  customers.location id
 FROM ${catalog name}.${silver schema}.silver sales AS sales
LEFT JOIN (SELECT customer id, location id FROM
${catalog name}.${silver schema}.silver customer) AS customers
ON sales.customer id = customers.customer id
SELECT
YEAR (date of sale) AS year,
country,
ROUND(SUM(total sales),2) AS total sales
FROM cte
LEFT JOIN (SELECT location id, country FROM
${catalog name}.${silver schema}.silver location) as loc
ON cte.location id = loc.location id
GROUP BY year, country
```

Gold_top_product_by_month.sql

```
CREATE MATERIALIZED VIEW
${catalog name}.${gold schema}.gold top product each month
COMMENT 'Gold table with sales data to determine the top selling product each
month'
TBLPROPERTIES ('quality' = 'gold')
SELECT
sales.product id,
MONTH(sales.date of sale) AS month,
YEAR (sales.date of sale) AS year,
products.name as product name,
SUM(sales.quantity) AS quantity,
ROUND(SUM(sales.quantity * products.base price), 2) AS revenue
FROM ${catalog name}.${silver schema}.silver sales
LEFT JOIN ${catalog name}.${silver schema}.silver product products
ON sales.product id == products.product id
GROUP BY sales.product id, products.name, month, year
ORDER BY revenue DESC
```

MI data.sql

```
CREATE OR REPLACE MATERIALIZED VIEW ${catalog name}.${silver schema}.ml data (
composite key STRING NOT NULL PRIMARY KEY,
month
                INT,
year
               INT,
total sales
               DOUBLE,
product name
               STRING
COMMENT 'ML table with sales data for ML enablement'
TBLPROPERTIES ('quality' = 'gold')
AS
SELECT
CONCAT (YEAR (date of sale), '-', MONTH (date of sale)) AS composite key,
MONTH (date of sale) AS month,
YEAR (date of sale) AS year,
ROUND(SUM(total sales), 2) AS total sales,
prod.name AS product name
FROM ${catalog name}.${silver schema}.silver sales sale
```

```
LEFT JOIN ${catalog_name}.${silver_schema}.silver_product prod
WHERE sale.product_id = prod.product_id
GROUP BY product_name, MONTH(date_of_sale), YEAR(date_of_sale)
```